



HP ELITEBOOK X G1A

ADVANCED BY THE LATEST **AMD RYZEN™ AI PRO 300** SERIES PROCESSORS

UNLEASH YOUR GENIUS WITH POWERFUL PERFORMANCE AND LOCAL AI

Redefine what's possible with the HP EliteBook X G1a, a revolutionary design built for AI and powered by the flagship AMD Ryzen™ AI 9 HX PRO 375 processor. The HP EliteBook X G1a is infused with technology and features designed to give the most demanding professionals the performance they need. AMD Ryzen AI PRO 300 Series processors offer up to 55 TOPs of NPU performance, exceptional battery life, and world-class security features and manageability, helping to ensure robust protection and efficient deployment. The HP EliteBook X G1a is designed with a dedicated Microsoft Copilot+ key bringing the AI assistant right to your fingertips. The synergy of AI and performance make this high-performing system the perfect workhorse for the performance driven professionals

See endnote: GD-220d, GD-243

AMD RYZEN™ AI 9 HX PRO 375 CPU VS INTEL CORE ULTRA

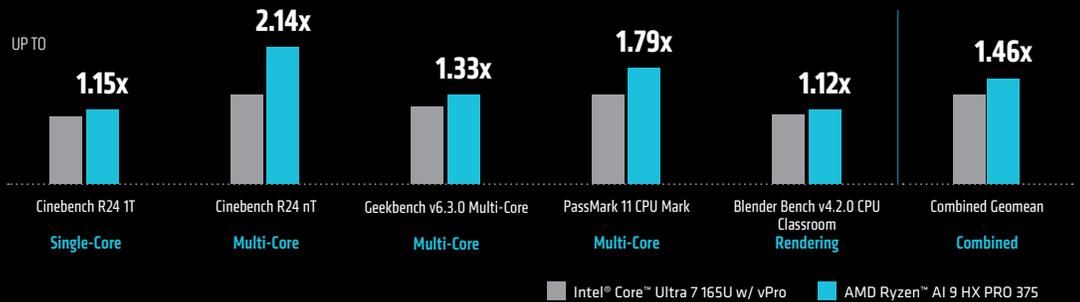
<p>HP EliteBook X G1a AMD Ryzen™ AI 9 HX PRO 375 CPU</p> 	VS	 <p>Dell Latitude 7450 Intel® Core™ Ultra 7 165H CPU w/ vPro</p>
<p>UP TO 53% BETTER MULTITASKING PERFORMANCE</p> <p><small>When compared to Intel® Core™ Ultra 7 165H running the Cinebench R24 n-thread benchmark</small></p>	<p>UP TO 60% BETTER SYSTEM PERFORMANCE</p> <p><small>When compared to Intel® Core™ Ultra 7 165H running the PassMark 11 (overall) benchmark</small></p>	<p>UP TO 22% FASTER PRODUCTIVITY PERFORMANCE</p> <p><small>When compared to Intel® Core™ Ultra 7 165H running the PCMark 10 Extended benchmark</small></p>

See endnote: STXP-12, STXP-16, STXP-19

LEADERSHIP PERFORMANCE VS INTEL CORE ULTRA PROCESSORS

World's Fastest CPU for Enterprise AI PCs:

- ✓ Leading AMD "Zen 5" technology
- ✓ Up to 12 high performance cores
- ✓ Leading single-core, multi-core, and rendering



See endnotes: STXP-07

LEADING BATTERY LIFE

UP TO **64% LONGER BATTERY LIFE**
vs Apple M3 Pro 12-Core CPU

UP TO **80% LONGER BATTERY LIFE**
vs Intel Core Ultra 7 165H CPU w/ vPro

HP EliteBook X G1a with
AMD Ryzen™ AI 9 HX PRO 375 CPU

UP TO **23.6 HOURS**
Video Playback Battery Life

VS

UP TO **14.4 HOURS**
Apple M3 Pro 12-Core CPU

UP TO **13.1 HOURS**
Intel Core Ultra 7 165H CPU w/ vPro

See endnote: STXP-30

NEXT-GEN AI PERFORMANCE

up to **2x**
Faster AI Responsiveness

When compared to a Dell Latitude 7450 powered by Intel® Core™ Ultra 7 165H running the LM Studio Mistral (time to first token)



Copilot+ PC

Uniquely optimized for Microsoft Copilot+ experiences.

up to **55**
NPU TOPS



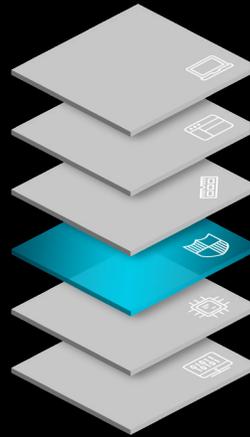
See endnote: STXP-22.GD-243

EXCEEDING THE LATEST SECURITY REQUIREMENTS FOR MODERN DEVICES

AMD RYZEN™ AI PRO 300 SERIES PROCESSORS

DELIVERING MULTI-LAYERED SECURITY FROM HARDWARE, TO OS, TO THE SYSTEM LEVEL

- **AMD Memory Guard** helps protect company's sensitive business data when an employee's PC is lost or stolen
- **NEW* Cloud Bare Metal Recovery (cBMR)** communicates Pre-OS to recover the system (via cloud) without shipping the system
- **NEW* Supply Chain Security (AMD DEVICE IDENTITY)** authenticates genuine AMD SoCs in customer platforms and its traceability across the supply chain
- **NEW* Watch Dog Timer** augments resiliency support through detection and recovery of hung SoC processes



- **HP WOLF SECURITY**
- **WINDOWS® 11 OS SECURITY**
Secured-Core PC L3
Hardware Enforced Stack Protection
- **AMD MEMORY GUARD**
- **MICROSOFT PLUTON SECURITY**
FIPS 140-3 Level 1 Certification
AMD SECURE PROCESSOR 2.0
- **AMD "ZEN 5" ARCHITECTURE**
AMD Shadow Stack
- **YOUR DATA**

■ Partner Security features ■ AMD Security features

Microsoft Pluton Product availability varies by device and market, NEW features not available on previous gen hardware

See endnote: GD-202, GD-206, GD-72

SPECIFICATIONS

MODEL	PROCESSOR	GRAPHICS	DISPLAY	HP WOLF SECURITY	OPERATING SYSTEM	BATTERY LIFE	CONNECTIVITY	DIMENSIONS/WEIGHT
<p>HP EliteBook X G1a</p>	<p>AMD Ryzen™ AI PRO 300 Series Processors: AMD Ryzen™ AI 9 HX PRO 375</p>	<p>AMD Radeon™ Integrated Graphics</p>	<p>14.0 in, 2.8K (2880 x 1800), Touch, 120Hz (VRR), UWVA, BrightView, Low Blue Light, 400 nits, DCI-P3 100%, OLED Panel with IOL 2.0</p>	<p>✓</p>	<p>Windows 11 Pro</p>	<p>Up to 21.3 hours Video Playback Battery Life*</p>	<p>2 Thunderbolt™ 4 USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1); 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1); 1 USB Type-A 10Gbps signaling rate (1 charging); 1 HDMI 2.1b4</p>	<p>12.29 x 8.45 x 0.35 in/312.1 x 214.6 x 8.9 mm</p> <p>Starting at 3.3lbs / 1.499 kg</p>

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- GD-220d.** Ryzen™ AI is defined as the combination of a dedicated AI engine, AMD Radeon™ graphics engine, and Ryzen processor cores that enable AI capabilities. OEM and ISV enablement is required, and certain AI features may not yet be optimized for Ryzen AI processors. Ryzen AI is compatible with: (a) AMD Ryzen 7040 and 8040 Series processors except Ryzen 5 7540U, Ryzen 5 8540U, Ryzen 3 7440U, and Ryzen 3 8440U processors; (b) AMD Ryzen AI 300 Series processors and AMD Ryzen AI 300 Series PRO processors; and (c) all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE. Please check with your system manufacturer for feature availability prior to purchase. GD-220d
- STXP-12.** Testing as of Sept 2024 by AMD performance labs on an HP EliteBook X G1a (14in) (40W) with AMD Ryzen AI 9 HX PRO 375 processor, Radeon™ 890M graphics, 32GB of RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with an Intel Core Ultra 7 165H processor (vPro enabled), Intel Arc Graphics, VBS=ON, 16GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Pro in the application(s) (Best Performance Mode); Cinebench R24 mt. Laptop manufacturers may vary configurations yielding different results. STXP-12
- STXP-16.** Testing as of Sept 2024 by AMD performance labs using a HP EliteBook X G1a (14in) with an AMD Ryzen AI 9 HX PRO 375 processor (54W), Radeon™ 890M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with Intel Core Ultra 7 165H processor (28W) (vPro enabled), Intel Arc Graphics, VBS=ON, 16GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Pro in the application(s) (Best Performance Mode); Passmark 11 (Overall). Laptop manufacturers may vary configurations yielding different results. STXP-16
- STXP-19.** Testing as of Sept 2024 by AMD performance labs using a HP EliteBook X G1a (14in) with an AMD Ryzen AI 9 HX PRO 375 processor (54W), Radeon™ 890M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with Intel Core Ultra 7 165H processor (28W) (vPro enabled), Intel Arc Graphics, VBS=ON, 16GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Pro in the application(s) (Balanced Mode); PCMark 10 Extended. Laptop manufacturers may vary configurations yielding different results. STXP-19
- STXP-22.** Testing as of Sept 2024 by AMD performance labs using a HP EliteBook X G1a (14in) with an AMD Ryzen AI 9 HX PRO 375 processor (54W), Radeon™ 890M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with Intel Core Ultra 7 165H processor (28W) (vPro enabled), Intel Arc Graphics, VBS=ON, 16GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Pro in the application(s) (Best Performance Mode); LMStudio 0.3.1 Mistral. CPU (time to first token). Laptop manufacturers may vary configurations yielding different results. STXP-22
- STXP-30.** Based on internal testing by AMD as of 9/23/24. Battery life results evaluated by playing a 1080P video on loop @150 nits brightness from 100 >0% battery running in Best Power Efficiency Mode. All systems use native video player. System config: HP EliteBook X G1a (14in) with an AMD Ryzen AI 9 HX PRO 375 processor (40W), Radeon™ 890M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro. System config: Apple MacBook Pro 14 with M3 Pro 12-core processor, Apple integrated graphics, 36GB RAM, 1TB SSD, macOS 15.0. System Config: Dell Latitude 7450 with an Intel Core Ultra 7 165H processor (28W) (vPro enabled), Intel Arc Graphics, VBS=ON, 16GB RAM, Windows 11 Pro. Video playback battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. Results may vary. STXP-30
- GD-202.** Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at <https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/>. Microsoft Pluton security processor requires OEM enablement. Check with the OEM before purchase. AMD has not verified the third-party claim. GD-202
- GD-206.** Full system memory encryption with AMD Memory Guard is included in AMD Ryzen PRO, AMD Ryzen Threadripper PRO, and AMD Athlon PRO processors. Requires OEM enablement. Check with the system manufacturer prior to purchase. GD-206
- GD-72.** The AMD Secure Processor is a dedicated on-chip security processor integrated within each system-on-a-chip (SoC) and ASIC (Application Specific Integrated Circuit) designed by AMD. It enables secure boot with root of trust anchored in hardware, initializes the SoC through a secure boot flow, and establishes an isolated Trusted Execution Environment. GD-72
- GD-243.** Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version. GD-243

*Zen 5™ is a codename only and not an AMD product name.
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